

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/10832

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC: G01S 7/40( 2006.01),13/66( 2006.01)

USPC: 342/90,95,96,97,195  
According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 342/90, 95, 96, 97, 195

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST search terms: OTH or (over adj3 horizon), (target same class\$9), buffer, (parallel same channel)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4456982 A (TOURNOIS) 26 June 1984 (26.06.1984), see Figure 3 for parallel channels, see Abstract for target classifier system.	1-16
A	US 5334985 A (TUCKER et al) 02 August 1994 (02.08.1994), see Abstract for target classification, see column 2, lines 37-47 for OTH radar.	1-16
A	US 4593286 A (MATHEWS et al) 03 June 1986 (03.06.1983), see column 9, lines 18-40 for target classification.	1-16
A	US 6211816 B1 (WESTPHAL) 03 April 2001 (03.04.2001), see column 5, lines 16-37 for target classification, see column 5, lines 38-45 for detecting targets over the horizon.	1-16
A	US 6373426 B1 (HELLSTEN) 16 April 2002 (16.04.2002), see column 4, lines 35-54 for OTH radar, see column 5, lines 13-25 for target classification.	1-16

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
*	Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 21 June 2006 (21.06.2006)	Date of mailing of the international search report 01 NOV 2006
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer John B. Sotomayor Telephone No. 571-272-3600

## **PATENT COOPERATION TREATY**

PCT

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**  
(Chapter I of the Patent Cooperation Treaty)

**(PCT Rule 44bis)**

Applicant's or agent's file reference <b>SRI-009PC</b>	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. <b>PCT/US2005/010832</b>	International filing date ( <i>day/month/year</i> ) <b>30 March 2005 (30.03.2005)</b>	Priority date ( <i>day/month/year</i> ) <b>05 April 2004 (05.04.2004)</b>	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant <b>SRI INTERNATIONAL</b>			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).
2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

<p>The International Bureau of WIPO  34, chemin des Colombettes  1211 Geneva 20, Switzerland</p>	<p>Date of issuance of this report  20 December 2006 (20.12.2006)</p>
<p>Facsimile No. +41 22 338 82 70</p>	<p>Authorized officer  <b>Yolaine Cussac</b>  e-mail: <a href="mailto:pt11@wipo.int">pt11@wipo.int</a></p>

**PATENT COOPERATION TREATY**

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:  
WILLIAM G. GUERIN  
GUERIN & RODRIGUEZ, LLP  
5 MOUNT ROYAL AVENUE  
MOUNT ROYAL OFFICE PARK  
MARLBOROUGH, MA 01752

**PCT**

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)	01 NOV 2006
Applicant's or agent's file reference  SRI-009PC		<b>FOR FURTHER ACTION</b> See paragraph 2 below	
International application No.  PCT/US05/10832	International filing date (day/month/year)  30 March 2005 (30.03.2005)	Priority date (day/month/year)  05 April 2004 (05.04.2004)	
International Patent Classification (IPC) or both national classification and IPC  IPC: G01S 7/40( 2006.01),13/66( 2006.01) USPC: 342/90,95,96,97,195			
Applicant  SRI INTERNATIONAL			

1. This opinion contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the opinion
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US  Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion  21 June 2006 (21.06.2006)	Authorized officer  John B. Sotomayor  Telephone No. 571-272-3600
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Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/10832

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

the international application in the language in which it was filed  
 a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

a sequence listing  
 table(s) related to the sequence listing

b. format of material

on paper  
 in electronic form

c. time of filing/furnishing

contained in the international application as filed.  
 filed together with the international application in electronic form.  
 furnished subsequently to this Authority for the purposes of search.

3.  In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/US05/10832

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>1-16</u>	YES
	Claims <u>NONE</u>	NO
Inventive step (IS)	Claims <u>1-16</u>	YES
	Claims <u>NONE</u>	NO
Industrial applicability (IA)	Claims <u>1-16</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

Claims 1-16 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed method and computer program product for detecting targets in a plurality of target classes including, *inter alia*, configuring an over-the-horizon radar, storing and processing radar data in a plurality of parallel channels representing each of the target classes.

Claims 1-16 meet the criteria set out in PCT Article 33(4), and thus the claimed method and computer program product have industrial applicability because the subject matter claimed can be made or used in industry.